



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/751,346

DATE: 08/26/2004

TIME: 11:56:15

Input Set : A:\41426-FA-PCT-US - 8.19.04.txt

Output Set: N:\CRF4\08262004\J751346.raw

3 <110> APPLICANT: Israeli, Ron S.
 4 Heston, Warren D.W.
 5 Fair, William R.
 7 <120> TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN AND USES THEREOF
 9 <130> FILE REFERENCE: 1769/41426-FA-PCT-US
 11 <140> CURRENT APPLICATION NUMBER: 10/751,346
 C--> 12 <141> CURRENT FILING DATE: 2004-01-02
 14 <160> NUMBER OF SEQ ID NOS: 128
 16 <170> SOFTWARE: PatentIn version 3.1
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 2653
 20 <212> TYPE: DNA
 21 <213> ORGANISM: HOMO SAPIENS
 23 <400> SEQUENCE: 1

(PS. 6)

ENTERED

24	ctcaaaaagg	gcccggatttc	cttctctgg	aggcagatgt	tgccctcttc	tctcgctcg	60
26	attggttcag	tgcactctag	aaacactgtct	gtgggtggaga	aactggaccc	caggtctgga	120
28	gcgaattcca	gcctgcaggg	ctgataagcg	aggcattagt	gagattgaga	gagactttac	180
30	ccggccgtgg	tgggtggagg	gcgcgcagta	gagcagcagc	acaggcgcgg	gtcccccggag	240
32	ccggcgtctg	ctcgccgcca	gatgtggaaat	ctccttcacg	aaaccgactc	ggctgtggcc	300
34	accgcgcgccc	gccccgcgtg	gctgtgcgtc	ggggcgttgg	tgcgtgggg	tggcttcttt	360
36	ctcctcggct	tcctcttcgg	gtggttata	aaatcccca	atgaagctac	taacattact	420
38	ccaaagcata	atatgaaagc	atttttggat	gaattgaaag	ctgagaacat	caagaagttc	480
40	ttatataatt	ttacacagat	accacattta	gcaggaacag	aacaaaactt	tcagcttgca	540
42	aagcaaattc	aatcccagt	gaaagaattt	ggccttgatt	ctgttgagct	agcacattat	600
44	gatgtcctgt	tgtcctaccc	aaataagact	catccaaact	acatctcaat	aattaatgaa	660
46	gatggaaatg	agattttcaa	cacatcatta	tttgaaccac	ctcctccagg	atatgaaaat	720
48	gttcggata	ttgttaccacc	tttcagtgtct	ttctctccctc	aaggaatgcc	agagggcgat	780
50	ctagtgtatg	ttaactatgc	acgaactgaa	gacttcctta	aatttggaaacg	ggacatgaaa	840
52	atcaatttgct	ctgggaaaat	tgttaattgcc	agatatggaa	aagttttcag	aggaaataaag	900
54	gttaaaaatg	cccgagctggc	agggggccaaa	ggagtcattc	tctactccga	ccctgctgac	960
56	tacccatgtc	ctggggtgaa	gtccatcca	gatgggttgg	atcttcctgg	aggtgggtgc	1020
58	cagcgtggaa	atatcctaaa	tctgaatgg	gcaggagacc	ctctcacacc	aggttaccca	1080
60	gcaaatgaat	atgcttata	gcgttggatt	gcagaggctg	ttggcttcc	aagtattcct	1140
62	gttcatccaa	ttggataacta	tgtgcacag	aagtccttag	aaaaaaatggg	tggctcagca	1200
64	ccaccagata	gcagcgtggag	aggaagtctc	aaagtcccct	acaatgttgg	acctggcttt	1260
66	actggaaact	tttctacaca	aaaagtcaag	atgcacatcc	actctaccat	tgaagtgaca	1320
68	agaatttaca	atgtgatagg	tactctcaga	ggagcagtgg	aaccagacag	atatgtcatt	1380
70	ctgggaggtc	accgggactc	atgggtgttt	ggtgggtattg	accctcagag	tggagcagct	1440
72	gttggatcatg	aaatttgcg	gagctttgg	acactgaaaa	aggaagggtg	gagacctaga	1500
74	agaacaattt	tgtttgcag	ctgggatgca	gaagaatttgc	gttcttgc	ttctactgag	1560
76	tggcagagg	agaattcaag	actccatcaa	gagcgtggcg	tggcttata	taatgtgtac	1620
78	tcatctatag	aaggaaacta	cactctgaga	gttgattgt	caccgctgtat	gtacagcttgc	1680
80	gtacacaacc	taacaaaaga	gctgaaaagc	cctgatgaa	caaattctt	1740	

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82	tatgaaagtt	ggactaaaaaa	aagtccctcc	ccagagttca	gtggcatgcc	caggataagc	1800
84	aaattggat	ctggaaatga	tttgaggtg	ttcttccaa	gacttggaaat	tgcttcaggc	1860
86	agagcacgg	tatactaaaaaa	ttggaaaaca	aacaaattca	gcccgtatcc	actgtatcac	1920
88	agtgtctatg	aaacatatga	gttgggaa	aagttttagt	atccaatgtt	taaatatcac	1980
90	ctcaactgtgg	cccaggttcg	aggaggatg	gtgttgagc	tagccattc	catagtgctc	2040
92	ccttttgatt	gtcgagatta	tgctgttagtt	ttaagaaagt	atgctgacaa	aatctacagt	2100
94	atttctatga	aacatccaca	ggaaatgaag	acatacagtg	tatcatttga	ttcaactttt	2160
96	tctgcagtaa	agaattttac	agaaattgct	tccaaagtca	gtgagagact	ccaggactt	2220
98	gacaaaagca	acccaatagt	attaagaatg	atgaatgatc	aactcatgtt	tctggaaaga	2280
100	gcatttattg	atccatttagg	gttaccagac	aggcctttt	ataggcatgt	cacatctatgct	2340
102	ccaaggcagcc	acaacaaga	tgcagggag	tcattccag	gaatttatga	tgctctgtt	2400
104	gatattgaaa	gcaaaagtgga	cccttccaag	gcctggggag	aagtgaagag	acagatttat	2460
106	gttgcagcct	tcacagtgca	ggcagctgca	gagacttga	gtgaagtagc	ctaagagaggat	2520
108	tcttagaga	atccgtattt	aatttgtgt	gtatgtca	cagaaaagaat	cgtaatgggt	2580
110	atattgataa	atttaaaat	tggtatattt	gaaataaagt	tgaatattat	atataaaaaaa	2640
112	aaaaaaaaaa	aaa					2653

115 <210> SEQ ID NO: 2

116 <211> LENGTH: 8

117 <212> TYPE: PRT

118 <213> ORGANISM: HOMO SAPIENS

120 <220> FEATURE:

121 <221> NAME/KEY: MISC_FEATURE

122 <222> LOCATION: (6)..(6)

123 <223> OTHER INFORMATION: Xaa equals any amino acid

126 <400> SEQUENCE: 2

W--> 128 Ser Leu Tyr Glu Ser Xaa Thr Lys

129 1 5

132 <210> SEQ ID NO: 3

133 <211> LENGTH: 15

134 <212> TYPE: PRT

135 <213> ORGANISM: HOMO SAPIENS

137 <220> FEATURE:

138 <221> NAME/KEY: MISC_FEATURE

139 <222> LOCATION: (1)..(1)

140 <223> OTHER INFORMATION: Xaa = any amino acid

143 <220> FEATURE:

144 <221> NAME/KEY: MISC_FEATURE

145 <222> LOCATION: (6)..(6)

146 <223> OTHER INFORMATION: Xaa = any amino acid

149 <220> FEATURE:

150 <221> NAME/KEY: MISC_FEATURE

151 <222> LOCATION: (12)..(12)

152 <223> OTHER INFORMATION: Xaa = any amino acid

155 <400> SEQUENCE: 3

W--> 157 Xaa Tyr Pro Asp Gly Xaa Asn Leu Pro Gly Gly Xaa Val Gln Arg

158 1 5 10 15

161 <210> SEQ ID NO: 4

162 <211> LENGTH: 7

163 <212> TYPE: PRT

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164 <213> ORGANISM: HOMO SAPIENS
166 <400> SEQUENCE: 4
168 Phe Tyr Asp Pro Met Phe Lys
169 1 5
172 <210> SEQ ID NO: 5
173 <211> LENGTH: 9
174 <212> TYPE: PRT
175 <213> ORGANISM: HOMO SAPIENS
177 <400> SEQUENCE: 5
179 Ile Tyr Asn Val Ile Gly Thr Leu Lys
180 1 5
183 <210> SEQ ID NO: 6
184 <211> LENGTH: 22
185 <212> TYPE: PRT
186 <213> ORGANISM: HOMO SAPIENS
188 <220> FEATURE:
189 <221> NAME/KEY: MISC_FEATURE
190 <222> LOCATION: (4)...(5)
191 <223> OTHER INFORMATION: Xaa = any amino acid
194 <400> SEQUENCE: 6
W--> 196 Phe Leu Tyr Xaa Xaa Thr Gln Ile Pro His Leu Ala Gly Thr Glu Gln
197 1 5 10 15
200 Asn Phe Gln Leu Ala Lys
201 20
204 <210> SEQ ID NO: 7
205 <211> LENGTH: 17
206 <212> TYPE: PRT
207 <213> ORGANISM: HOMO SAPIENS
209 <400> SEQUENCE: 7
211 Gly Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr Phe Ala Pro Asp Val
212 1 5 10 15
215 Lys
219 <210> SEQ ID NO: 8
220 <211> LENGTH: 17
221 <212> TYPE: PRT
222 <213> ORGANISM: HOMO SAPIENS
224 <400> SEQUENCE: 8
226 Pro Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr Phe Ala Pro Gly Val
227 1 5 10 15
230 Lys
234 <210> SEQ ID NO: 9
235 <211> LENGTH: 15
236 <212> TYPE: PRT
237 <213> ORGANISM: HOMO SAPIENS
239 <400> SEQUENCE: 9
241 Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg
242 1 5 10 15
245 <210> SEQ ID NO: 10
246 <211> LENGTH: 19

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Input Set : A:\41426-FA-PCT-US - 8.19.04.txt

Output Set: N:\CRF4\08262004\J751346.raw

247 <212> TYPE: PRT
 248 <213> ORGANISM: HOMO SAPIENS
 250 <400> SEQUENCE: 10
 252 Tyr Ala Gly Glu Ser Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile
 253 1 5 10 15
 256 Glu Ser Lys
 260 <210> SEQ ID NO: 11
 261 <211> LENGTH: 22
 262 <212> TYPE: PRT
 263 <213> ORGANISM: Homo sapiens
 265 <220> FEATURE:
 266 <221> NAME/KEY: MISC_FEATURE
 267 <222> LOCATION: (7)..(7)
 268 <223> OTHER INFORMATION: Xaa = any amino acid
 271 <220> FEATURE:
 272 <221> NAME/KEY: MISC_FEATURE
 273 <222> LOCATION: (14)..(16)
 274 <223> OTHER INFORMATION: Xaa = any amino acid
 277 <400> SEQUENCE: 11
 W--> 279 Thr Ile Leu Phe Ala Ser Xaa Asp Ala Glu Glu Phe Gly Xaa Xaa Xaa
 280 1 5 10 15
 283 Ser Thr Glu Glu Ala Glu
 284 20
 287 <210> SEQ ID NO: 12
 288 <211> LENGTH: 17
 289 <212> TYPE: DNA
 290 <213> ORGANISM: Homo sapiens
 292 <220> FEATURE:
 293 <221> NAME/KEY: misc_feature
 294 <222> LOCATION: (12)..(12)
 295 <223> OTHER INFORMATION: n = any nucleotide
 298 <400> SEQUENCE: 12
 W--> 299 ttytaygayc cnatgtt 17
 302 <210> SEQ ID NO: 13
 303 <211> LENGTH: 17
 304 <212> TYPE: DNA
 305 <213> ORGANISM: Homo sapiens
 307 <220> FEATURE:
 308 <221> NAME/KEY: misc_feature
 309 <222> LOCATION: (6)..(6)
 310 <223> OTHER INFORMATION: n=any nucleotide
 313 <400> SEQUENCE: 13
 W--> 314 aacatnggrt crtaraa 17
 317 <210> SEQ ID NO: 14
 318 <211> LENGTH: 17
 319 <212> TYPE: DNA
 320 <213> ORGANISM: Homo sapiens
 322 <220> FEATURE:
 323 <221> NAME/KEY: misc_feature

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Input Set : A:\41426-FA-PCT-US - 8.19.04.txt
Output Set: N:\CRF4\08262004\J751346.raw

324 <222> LOCATION: (12)..(12)
325 <223> OTHER INFORMATION: n=any nucleotide
328 <400> SEQUENCE: 14
W--> 329 athtayaayg tnathgg 17
332 <210> SEQ ID NO: 15
333 <211> LENGTH: 17
334 <212> TYPE: DNA
335 <213> ORGANISM: Homo sapiens
337 <220> FEATURE:
338 <221> NAME/KEY: misc_feature
339 <222> LOCATION: (6)..(6)
340 <223> OTHER INFORMATION: n=any nucleotide
343 <400> SEQUENCE: 15
W--> 344 ccdatnacrt trtadat 17
347 <210> SEQ ID NO: 16
348 <211> LENGTH: 17
349 <212> TYPE: DNA
350 <213> ORGANISM: Homo sapiens
352 <220> FEATURE:
353 <221> NAME/KEY: misc_feature
354 <222> LOCATION: (3)..(3)
355 <223> OTHER INFORMATION: n=any nucleotide
358 <220> FEATURE:
359 <221> NAME/KEY: misc_feature
360 <222> LOCATION: (6)..(6)
361 <223> OTHER INFORMATION: n=any nucleotide
364 <400> SEQUENCE: 16
W--> 365 ccngcngayt aytttgtc 17
368 <210> SEQ ID NO: 17
369 <211> LENGTH: 17
370 <212> TYPE: DNA
371 <213> ORGANISM: Homo sapiens
373 <220> FEATURE:
374 <221> NAME/KEY: misc_feature
375 <222> LOCATION: (12)..(12)
376 <223> OTHER INFORMATION: n=any nucleotide
379 <220> FEATURE:
380 <221> NAME/KEY: misc_feature
381 <222> LOCATION: (15)..(15)
382 <223> OTHER INFORMATION: n=any nucleotide
385 <400> SEQUENCE: 17
W--> 386 gcraartart cngcnggg 17
389 <210> SEQ ID NO: 18
390 <211> LENGTH: 20
391 <212> TYPE: DNA
392 <213> ORGANISM: Homo sapiens
394 <220> FEATURE:
395 <221> NAME/KEY: misc_feature
396 <222> LOCATION: (3)..(3)

RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : A:\41426-FA-PCT-US - 8.19.04.txt
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Please Note:

use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

eq#:2; Xaa Pos. 6 ✓
eq#:3; Xaa Pos. 1,6,12 ✓
eq#:6; Xaa Pos. 4,5 ✓
eq#:11; Xaa Pos. 7,14,15,16 ✓
eq#:12; N Pos. 12 ✓
eq#:13; N Pos. 6 ✓
eq#:14; N Pos. 12 ✓
eq#:15; N Pos. 6 ✓
eq#:16; N Pos. 3,6 ✓
eq#:17; N Pos. 12,13 ✓
eq#:18; N Pos. 3 ✓
eq#:19; N Pos. 18
eq#:22; N Pos. 9
eq#:23; N Pos. 12
eq#:24; N Pos. 9
eq#:25; N Pos. 9
eq#:26; N Pos. 82,83,84,193,196,197,217,218,219,232,233,237,238,253,254
eq#:26; N Pos. 255,256,263,600,601,721,722,723,724
eq#:27; N Pos. 224,255,412,413,414,433,520,521,536,537,538,539,540,541,542
eq#:27; N Pos. 543
eq#:28; N Pos. 214,377
eq#:105; N Pos. 20
eq#:110; N Pos. 537,538,539,540,541,542,543,544,545,546,547,548,549,550
eq#:110; N Pos. 606,607,675,676,683,687,731
eq#:111; N Pos. 634,635,636,637,638,639,640,641,642,643,644,645,646,647
eq#:111; N Pos. 648,649,650,950,951,952,953,954,955,956,957,958,959,960
eq#:111; N Pos. 961,1045,1102
eq#:112; N Pos. 314,315,316,317,318,319,452
eq#:114; N Pos. 582,583,641,674,679,680,694,790,791
eq#:116; N Pos. 272,273,274,275,276,277,278,545,546,547,548,549,550,935
eq#:116; N Pos. 936,937,938,939,940,941,942,943,944,945,946,947,948,949
eq#:116; N Pos. 950,1034,1035,1036
eq#:121; N Pos. 634,635,636,637,638,639,640,641,642,643,644,645,646,647
eq#:121; N Pos. 648,649,650,950,951,952,953,954,955,956,957,958,959,960
eq#:121; N Pos. 961,1045,1103,1362,1363,1364,1365,1366,1367,1368,1369,1533
eq#:121; N Pos. 1534,1543,1616,1617,1783
eq#:122; N Pos. 314,315,316,317,318,319,452,1037,1038
eq#:123; N Pos. 380,381,382,383,384,385,386,387,675,676,677,678,679,680
eq#:123; N Pos. 720,974,977,981,1090,1166,1167,1168,1169,1170,1171,1210
eq#:125; N Pos. 504
eq#:126; N Pos. 262,263,264,265,266,267,268,545,546,547,548,549,550,900
eq#:126; N Pos. 901,902,903,904,905,906,907,917,955,1009
eq#:127; N Pos. 840,841,842,843,1096,1097,1098,1099,1100,1101,1294,1295
eq#:127; N Pos. 1338,1339,1340,1341,1342,1343,1965,1966

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
 L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
 L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
 L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
 L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
 L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
 L:329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
 L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
 L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
 L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
 L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
 L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
 L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
 L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
 L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
 L:494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
 L:565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:60
 L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:180
 L:571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:240
 L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:540
 L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:600
 L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:720
 L:638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:180
 L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:240
 L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:360
 L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:420
 L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:480
 L:650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:540
 L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:180
 L:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:360
 L:1404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0
 L:1601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:480
 L:1603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:540
 L:1605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:600
 L:1607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:660
 L:1609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:720
 L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:600
 L:1672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:900
 L:1674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:960
 L:1676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:1020
 L:1678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:1080
 L:1715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:300
 L:1719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:420
 L:1815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:540
 L:1817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:600
 L:1819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:660
 L:1823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:780

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..:1903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:240
..:1913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:540
..:1925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:900
..:1929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:1020
..:2338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:600
..:2348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:900
..:2350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:960
..:2352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1020
..:2354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1080
..:2362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1320
..:2368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1500
..:2370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1560
..:2376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:1740
..:2417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:300
..:2421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:420
..:2441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:1020
..:2524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:360
..:2534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:660
..:2544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:960
..:2548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:1080
..:2550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:1140
..:2552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:1200
..:2618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:480
..:2681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:240
..:2691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:540
..:2701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:840
..:2703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:900
..:2705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:960
..:2772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:780
..:2774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:840
..:2782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:1080
..:2788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:1260
..:2790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:1320
..:2810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:1920